

WHAT IS CLAIMED IS:

1. A weight member for a golf club head, the weight member being made by a WFeNi alloy manufactured by means of a precision casting process, the WFeNi alloy comprising nickel 30-60wt%, tungsten 15-30wt%, chromium  
5 1.5-10.0wt%, and iron.

2. The weight member for a golf club head as claimed in claim 1, wherein the mixture ratio of molten tungsten to molten nickel satisfies a solidus curve as follows:

$$Y = 1.26X - 38.99\%$$

10       Wherein Y is the percentage of tungsten by weight, and Y is not less than X.

3. The weight member for a golf club head as claimed in claim 1, further comprising silicon of less than 1.5%.

4. The weight member for a golf club head as claimed in claim 1,  
15 further comprising at least one component for improving a mechanical property of the weight member.

5. The weight member for a golf club head as claimed in claim 4, wherein said at least one component includes manganese of less than 1.0%, copper of less than 4.0%, vanadium of less than 1.0%, and niobium of less than  
20 1.0%.

6. The weight member for a golf club head as claimed in claim 1, wherein the WFeNi alloy has a density of  $9.0\text{g/cm}^3$ - $10.5\text{g/cm}^3$ .

7. The weight member for a golf club head as claimed in claim 1, wherein the WFeNi alloy has a melting point of 1400°C-1500°C.

8. The weight member for a golf club head as claimed in claim 1, further including at least one trace element.

5        9. The weight member for a golf club head as claimed in claim 8, wherein said at least one trace element includes sulfur of less than 0.1%, phosphorus of less than 0.1%, and carbon of less than 0.1%.